

SECTION 08713

AUTOMATIC DOOR OPERATORS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing the following type(s) of automatic door operators:
  - 1. Exterior barrier free doors.
- B. Related Sections:
  - 1. Door hardware is specified in Section 08710.

1.02 SUBMITTALS

- A. Product Data: Furnish manufacturer's product data and standard details including fabrication, finishing, hardware, operators, accessories, and other components of the work. Include rough-in diagrams, wiring diagrams, parts lists, and maintenance instructions.
- B. Shop Drawings: Furnish shop drawings for fabrication and installation. Show anchors, joint system, expansion provisions, hardware, and other components not shown in manufacturer's product data.
- C. Templates and Diagrams: Furnish templates, diagrams, and other data to fabricators and installers of related work for coordination of operators with doors, frames, hardware, electrical, and other work.

1.03 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Provide operators produced by a firm with not less than 5-years experience in the fabrication of automatic door operation equipment.
- B. Installer's Qualifications: An authorized representative of the door manufacturer.
- C. Automatic door operators shall comply with ANSI A156.10 and UL 325.
- D. Barrier free door operators shall comply with ANSI A156.19, Low-Energy Automatic Door Standard.
- E. Power operated doors shall comply with UBC Standard No. 10-1 (CBC Section 1003.3.1.2.).

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

- A. Besam, Inc., Dor-O-Matic Div., Republic Industries, Inc., Horton Automatics, Gyro Tech, Inc., Stanley Access Technologies or approved equal.

2.02 AUTOMATIC DOOR OPERATOR FOR BARRIER FREE DOORS

- A. Operator: Low-energy, self-contained, electromechanical design. The operator shall be powered open with a DC motor with closing by spring force. The motor shall be off when the door is in the closing mode. The door shall be manually operated with power on or off without damage to the operator.
  - 1. Operator shall permit manual opening of door and automatic operation when actuated with pushbutton switch.

2. The operator shall include the following variable adjustments in compliance with ANSI A156.19:
    - a. Opening Speed: 3- to 5-seconds.
    - b. Closing Speed: 3- to 5-seconds.
    - c. Time Delay Before Closing: 2- to 30-seconds.
  3. Opening and closing force, measured 2-inches out from the lock stile of the door, shall not exceed 15-pounds of force to stop the door when operating in either direction.
  4. Operator shall be mounted and concealed in an extruded aluminum cover running full width of door. Finish aluminum with a clear anodized finish.
- B. Emergency Breakout: In-swinging doors shall be equipped with an emergency breakout feature. When door is in emergency breakout position, power shall be removed from the operator.
- C. Control Switch:
1. Exterior Bollard: Wikk Industries, Inc. or approved equal 6-inch round bollard with 6-inch x 6-inch curved stainless steel switch engraved with handicap logo and "Push to Open".
    - a. Size: 6-inch diameter with mortised removable textured HDPE cap..
    - b. Mounting: Inground.
    - c. Material and Finish: Satin bronze.
  2. Interior Switch: Round stainless steel engraved handicap design, marked "Push to Open". Locate on interior wall surface where indicated or where directed by the Architect.
- D. Electrical Requirements: 120-VAC, 1-phase, 60-Hz to operator; low voltage wires from push-plate switches to operator.

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Install automatic door operating equipment by factory-trained installers in accordance with manufacturer's instructions and reviewed shop drawings.
- B. Adjust operators to achieve smooth and quiet operation.

### 3.02 CLEANING AND PROTECTION

- A. Clean exposed operating components as recommended by manufacturer.
- B. Protect automatic door operating equipment from damage and deterioration during construction.

END OF SECTION